

Title (en)

AIR BLOWING METHOD-BASED ALCOHOL SENSOR, AND SMART DEVICE

Title (de)

ALKOHOLSENSOR AUF BASIS EINES LUFTBLASVERFAHRENS UND INTELLIGENTE VORRICHTUNG

Title (fr)

DÉTECTEUR D'ALCOOL BASÉ SUR UN PROCÉDÉ DE SOUFFLAGE D'AIR, ET DISPOSITIF INTELLIGENT

Publication

**EP 4206667 A1 20230705 (EN)**

Application

**EP 20964050 A 20201204**

Priority

CN 2020134082 W 20201204

Abstract (en)

An air blowing method-based alcohol sensor and a smart device. The alcohol sensor comprises an alcohol measurement module, an air pressure measurement module (11), an MCU processor (12), a circuit substrate (10), and a housing (30) coveringly arranged on the circuit substrate (10); the alcohol measurement module transmits a concentration signal thereof to the MCU processor (12) by means of a sampling and amplification circuit module, the air pressure measurement module (11) and the MCU processor (12) are mutually connected and implement transmission of an air pressure signal, and the MCU processor (12), after performing processing on the concentration signal and the air pressure signal, outputs an alcohol concentration value. The alcohol measurement module and the air pressure measurement module (11) are integrated within the housing (30), and due to the two modules being in communication with the outside, it can be determined in real time whether insufficient air is being blown during measurement according to an air blowing situation of a user, the user being notified to blow air again or a valid real time concentration being displayed, and the authenticity and accuracy of measurement can still be guaranteed while reducing the size of the alcohol sensor.

IPC 8 full level

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CPC (source: EP US)

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